

ABSTRACT

A multilayer PTC thermistor that can reliably decrease the resistance by decreasing the thickness of ceramic layers composed of a BaTiO_3 semiconductor ceramic and achieve a resistance close to the resistance calculated from the multilayer structure is provided.

The thermistor is adjusted to satisfy the conditions $5 \leq X \leq 18$ and $4 \leq X \cdot Y \leq 10$, wherein X is a thickness (μm) of each ceramic layer (2) between the internal electrodes (3) and Y is a donor content (%) in the barium titanate semiconductor ceramic constituting the ceramic layers (2), the Y being in terms of (number of donor atoms/number of Ti atoms) $\times 100$.